2004 AUSTRALASIAN SCHOOLS

MATHEMATICS ASSESSMENT

AUSTRALIA

40 QUESTIONS
TIME ALLOWED: 45 MINUTES

STUDENT'S NAME:

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

Read the instructions on the **ANSWER SHEET**
and fill in your **NAME, SCHOOL YEAR, GENDER**
and the **LANGUAGE YOU FIRST SPOKE.**

Use the information provided to choose the **BEST**
answer from the four possible options.

On your **ANSWER SHEET** blacken the oval
that matches the answer you choose.
Mark only **ONE** answer for each question.

Your score will be the number of correct answers.
Marks are **NOT** deducted for incorrect answers.

Use a 2B or B pencil.
Do **NOT** use a biro or pen.
Rub out any mistakes completely.
You may use a ruler and spare paper.
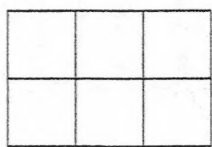Calculators are **NOT** permitted.
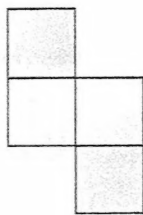
THE UNIVERSITY OF NEW SOUTH WALES
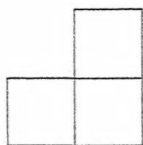
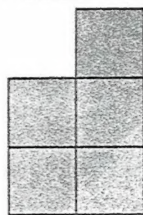### EDUCATIONAL TESTING CENTRE

1. Which of these has 5 blocks?

(A)

(B)

(C)

(D)

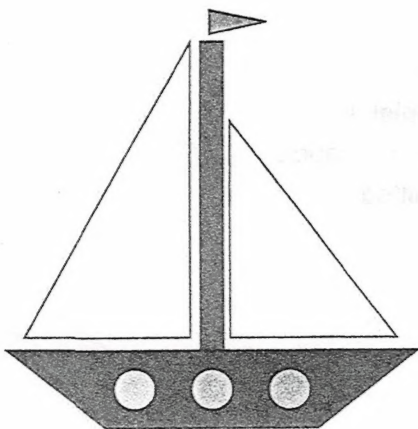2. Which one of these containers can hold the most juice?
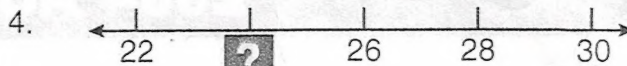
(A) (B) (C) (D)

3.

Which shape is **not** used in this drawing?

(A) circle
(B) square
(C) triangle
(D) rectangle

4.

22 ? 26 28 30

What is the missing number?

(A) 14
(B) 20
(C) 23
(D) 24

5. Lee's screensaver is a picture of four fish and one plant.

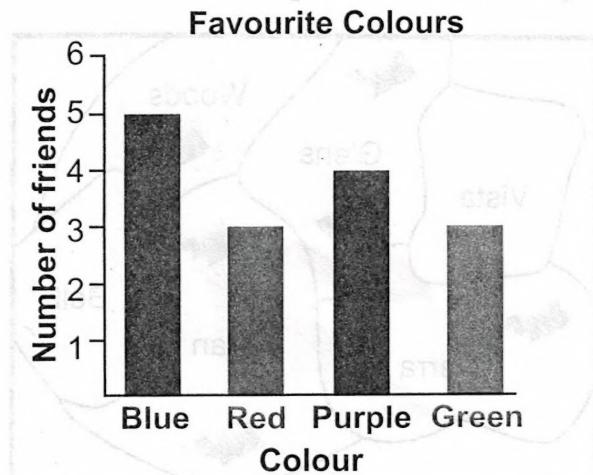On Lee's screen, which fish is **closest** to the plant?

(A) (B)

(C) (D)

6. Ben made this graph after finding out his friends' favourite colours.
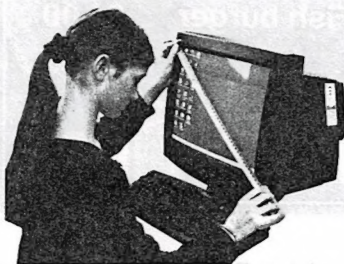
Favourite Colours

How many of Ben's friends had **Purple** as their favourite colour?

(A)   3
(B)   4
(C)   5
(D)   6

7. $16 - 9 = $?

(A)   13
(B)   8
(C)   7
(D)   3

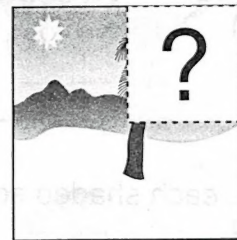8. Ruth is measuring her screen with a tape measure.

Which unit should be marked on the tape measure?
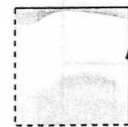
(A)   cm
(B)   kg
(C)   km
(D)   mL

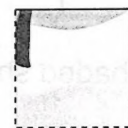9. Luke made this picture.

He cut out a part of his picture.

Which of these is the part that Luke cut out?

10. Some children collected beetles.

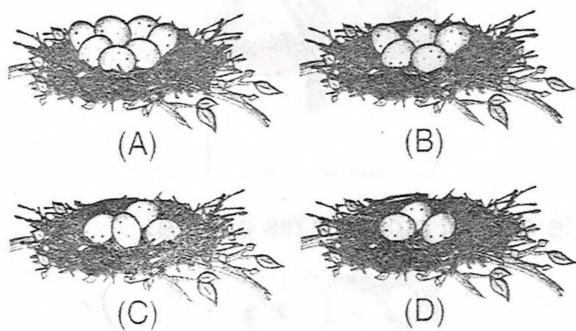Kim collected **more** beetles than Alex but **fewer** beetles than Dan.

Alex   Kim   Dan

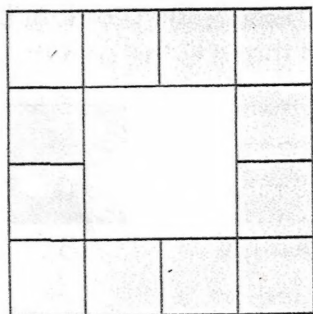How many beetles might Kim have collected?

(A)   31
(B)   22
(C)   16
(D)   8

11. Which nest has an even number of eggs in it?

(A)

(B)

(C)

(D)

12. In this shape, each shaded square has an area of 1 cm².

What is the area of the shaded shape?

(A)   4 cm²
(B)   12 cm²
(C)   13 cm²
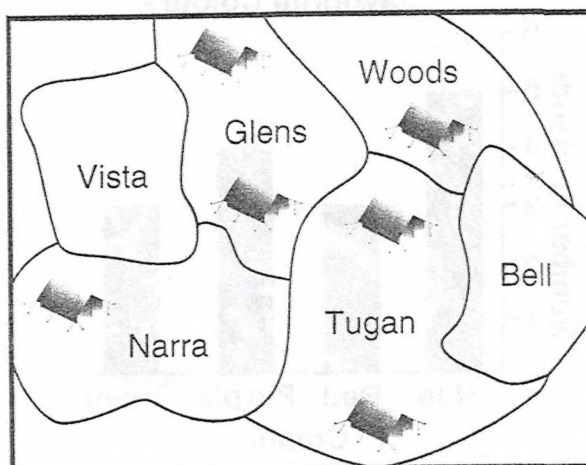(D)   16 cm²

13. 8 + 400 + 50 = [?]

(A)   458
(B)   485
(C)   845
(D)   854

14. Kirra bought some apples.
She gave 7 apples to her friend.
She then had 8 left.

How many apples did Kirra buy?

(A)   1
(B)   4
(C)   15
(D)   17

15. This map shows the location of camping grounds in some areas.

KEY: = 1 camping ground

Which areas have 2 camping grounds?

(A)   Tugan and Woods
(B)   Glens and Narra
(C)   Woods and Glens
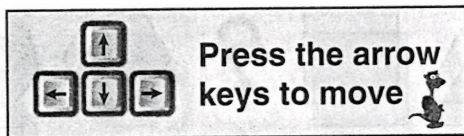(D)   Glens and Tugan

16. The menu shows prices of food and drinks.

Menu

Soft drink	$1.00
Orange juice	$2.00
Beef burger	$3.00
Fish burger	$4.00

Jack bought a Beef burger and an Orange juice.
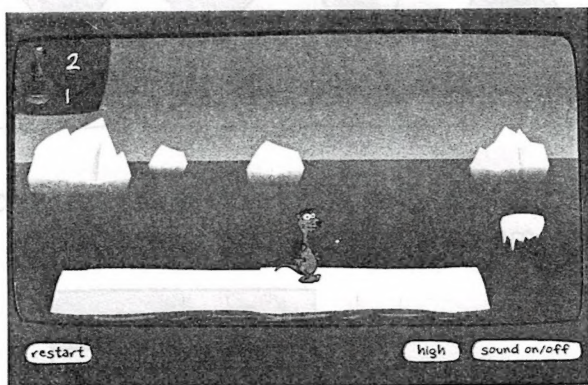
How much change should he get back from $20?

(A) $ 5
(B) $10
(C) $14
(D) $15

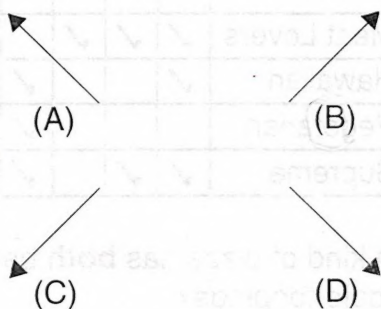**17.** A computer game has these instructions.
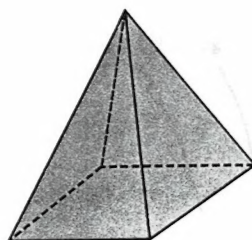

Press the arrow keys to move

Melissa pressed the UP and RIGHT arrow keys together.

In which direction would 🐀 move?

(A) ↖
(B) ↗
(C) ↙
(D) ↘

18.

What is the mass of these bananas?

(A)   650 g
(B)   600 g
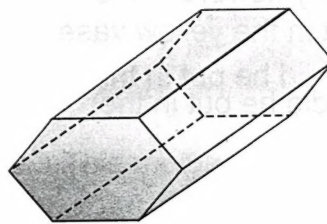(C)   550 g
(D)   500 g

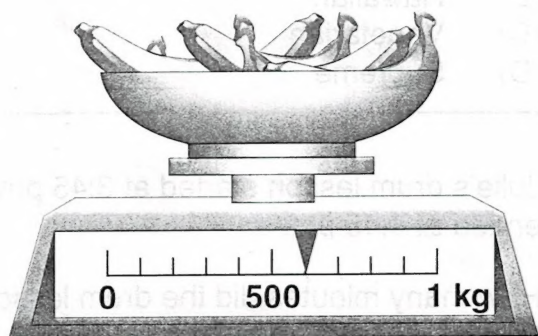**19.** Which of these solids has the **smallest number of edges**?

(A)
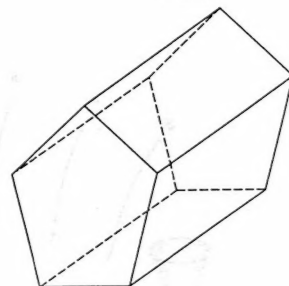
(B)

(C)
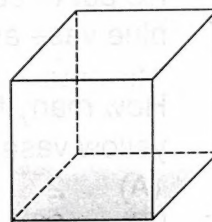
(D)

20. Cara got into the lift at level B3. She went up 7 levels, then down 4 levels and got out of the lift.
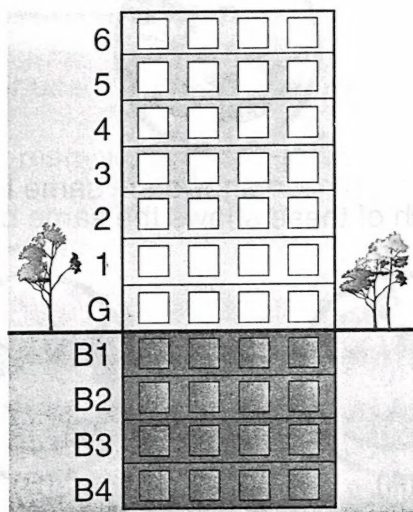
On which level did Cara get out of the lift?
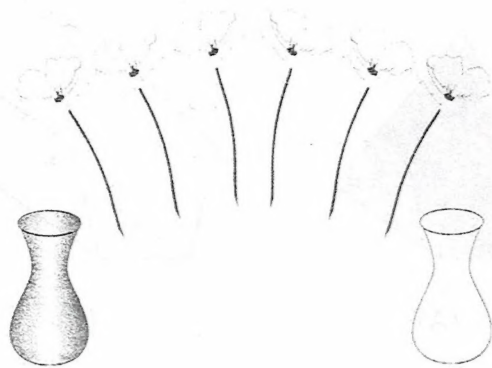
(A)   3
(B)   1
(C)   G
(D)   B1

21. Aden put all of these flowers into two vases.

He put twice as many flowers in the blue vase as he put in the yellow vase.

How many flowers did he put in the yellow vase?

(A)   2
(B)   3
(C)   4
(D)   6

22. Sue has this badge.

Which of these shows the same badge?

(A)   (B)

(C)   (D)
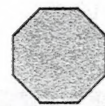
23. A shape is missing from this pattern.

Which shape is missing?

(A)   (B)   (C)   (D)

24. This table shows the different toppings on some kinds of pizza.

		Toppings				
		Ham	Beef	Chicken	Pineapple	Mushroom
Pizzas	Meat Lovers	✓	✓	✓		
	Hawaiian	✓			✓	
	Vegetarian				✓	✓
	Supreme	✓	✓		✓	✓

Which kind of pizza has **both** beef and pineapple toppings?

(A)   Meat Lovers
(B)   Hawaiian
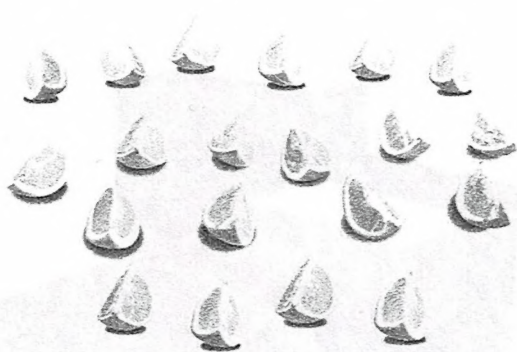(C)   Vegetarian
(D)   Supreme

25. Julie's drum lesson started at 3:45 pm and ended at 4:45 pm.

How many minutes did the drum lesson take?
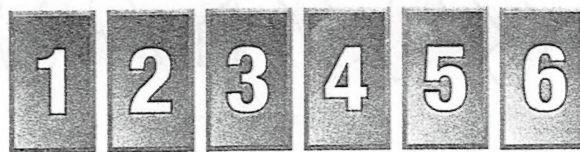
(A)   45
(B)   60
(C)   90
(D)   100

26. Nico bought a bag of oranges.
He cut all the oranges into quarters.

How many oranges were in the bag?

(A)   4
(B)   5
(C)   10
(D)   20

27. $72 \times 4 =$?

(A)   76
(B)   78
(C)   118
(D)   288

28. A bird is sitting on a perch.

10 cm
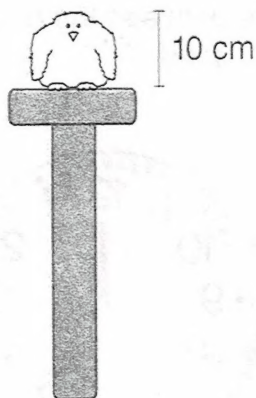
About how many centimetres high is the perch?

(A)   20
(B)   30
(C)   40
(D)   50

29. Kam has these six cards.

1 2 3 4 5 6

He turns the cards over, mixes them up and picks one.

Which one of these is it **impossible** for Kam to pick?

(A)   a number less than 3
(B)   a number less than 8
(C)   a number greater than 1
(D)   a number greater than 6

30. This recipe makes 12 scones.

Scone Recipe

Ingredients
3 cups self-raising flour
1 cup lemonade
1 cup cream

Peter used this recipe to make 36 scones.

How many cups of self-raising flour did he use?

(A)   1
(B)   3
(C)   6
(D)   9

31. $42 \div 3 =$?

(A)   14
(B)   12
(C)   11
(D)   10

7

32.

1 2 3 4 5 6

Which two shapes can be used to make the shape below?
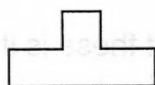
(A) **4** and **1**
(B) **3** and **6**
(C) **2** and **5**
(D) **1** and **3**

33. Maria spent $4.

James spent twice as much money as Maria.

Kelly spent three times as much money as James.

How much did Kelly spend?

(A) $ 8
(B) $12
(C) $16
(D) $24

34. Jason saw some bicycles and tricycles in a park.

There were 12 altogether.
They had 27 wheels altogether.

How many tricycles were there?

(A) 15
(B) 9
(C) 6
(D) 3

35. Lucy is using blocks to make a cube. All the blocks are the same size.
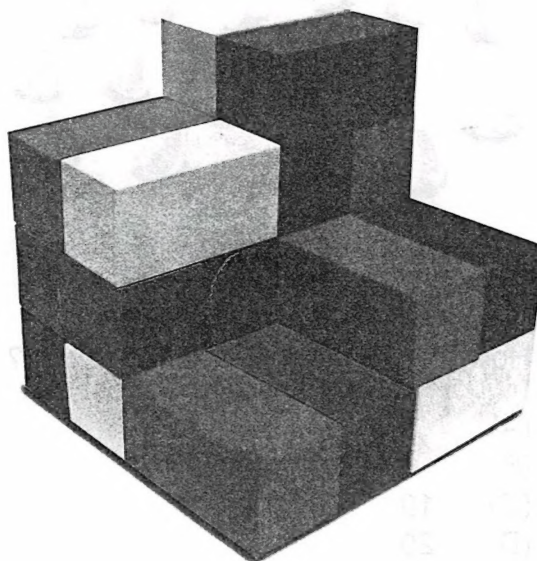
How many **more** blocks does Lucy need to finish this cube?

(A) 6
(B) 8
(C) 12
(D) 15

36. The time by this clock is 12:05.

The angle between the two hands of the clock is shaded.

At which of these times would the angle between the two hands be smallest?

(A) 5:15
(B) 6:50
(C) 8:45
(D) 10:20

8

37. This table shows the number of sheep owned by some farmers.

Sheep numbers							
Farmer Bob							
Farmer Daisy							
Farmer Clem							
Farmer Jan							

KEY: 🐑 = 6 sheep

How many **more** sheep does Farmer Bob have than Farmer Jan?

(A) $9\frac{1}{2}$
(B) 57
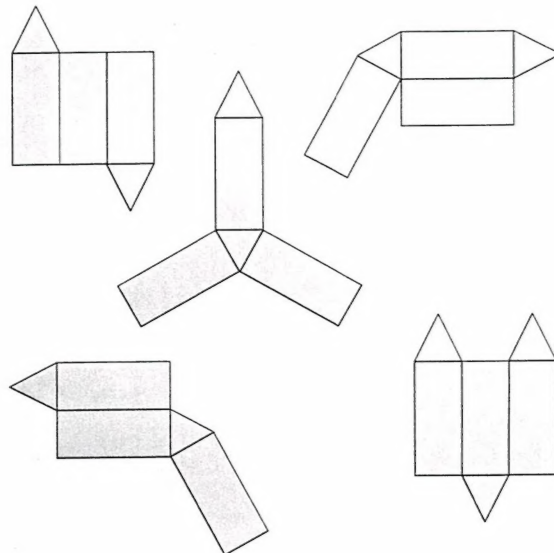(C) 60
(D) 72

38.

Which of these is the heaviest?

(A) ✚
(B) ◯
(C) ▲
(D) ⬢

39. This is a triangular prism.

The students in a class each tried to make a net of a triangular prism.

How many of these nets will fold to make a triangular prism?

(A) 1
(B) 2
(C) 3
(D) 4

40.

◆ △ ● = 30

△ △ ● ● = 50

◆ ◆ △ ● ● ● = 65

● = ?

(A) 25
(B) 15
(C) 10
(D) 5